

Interoffice Memo Office of Design Policy & Support

DATE:

12/17/2018

FILE:

P.I.# 0013922

Hall County / GDOT District 1 - Gainesville

CS 991/Elachee Road Bridge Replacement @ I-985

FROM:

Érent Story, State Design Policy Engineer

TO:

SEE DISTRIBUTION

SUBJECT:

APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

Distribution:

Hiral Patel, Director of Engineering

Joe Carpenter, Director of P3

Albert Shelby, Director of Program Delivery

Carol Comer, Director, Division of Intermodal

Darryl VanMeter, Assistant Director of P3/State Innovative Delivery Administrator

Kim Nesbitt, Program Delivery Administrator

Bobby Hilliard, Program Control Administrator

Paul Tanner, State Transportation Planning Administrator

Eric Duff, State Environmental Administrator

Bill DuVall, State Bridge Engineer

Andrew Heath, State Traffic Engineer

Angela Robinson, Financial Management Administrator

Erik Rohde, State Project Review Engineer

Monica Flournoy, State Materials Engineer

Patrick Allen, State Utilities Engineer

Eric Conklin, State Transportation Data Administrator

Attn: Systems & Classification Branch

Benny Walden, Statewide Location Bureau Chief

Brent Cook, District Engineer

Brandon Kirby, District Preconstruction Engineer

Robby Oliver, District Utilities Manager

Darrell Richardson, Project Manager

BOARD MEMBER - 9th Congressional District

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA LIMITED SCOPE PROJECT CONCEPT REPORT

	Project Type: GDOT District:	Bridge Replacemen	t P.I. Number: County:	0013922 Hall
		N/A	State Route Number:	
	, , , , , , , , , , , , , , , , , , , ,	Project Num		
		931.3		_
			R 472/Elachee Drive over I-985 in	
			n each direction with a 4-foot bike will be a 6-foot rural shoulder.	iarie, a 2-1001 guiter, and
L	a 0.5-100t sidewalk off florti	side. The sodin side	Will be a 6-100t farat shoulder.	
	Submitted for approval:			8/2/2018
=	Brad Gowen, P.E., Holt Cons	ulting Company, LLC	Humberly W. Mastell	Date 8/30/18
75	State Program Delivery Admi	nistrator		Date
	50)1111 And	SHP C	L.B.	8-8-18
200	GDOT Project Manager	Her Man Control of Con		Date
	S S S S S S S S S S S S S S S S S S S			
	Recommendation for appr	roval:	/	-//
		ERK DUFF*	EKP	9/5/2018
	State Environmental Adminis	trator		Date / /
		NOREW PESESO	N/EKP	9/28/2018
FOR	State Traffic Engineer	And the first of the state of t	~ 1	Date
<u></u>		ILL DUVOLL	YEKP	9/4/2018
	State Bridge Engineer	A STATE OF THE STA		Date /
_	But	UNDON KIRB	ry*/EKP	9/17/2018
FOR	District 1 Engineer		,	Date /
-				
		oject is consistent wit Transportation Plan (h the MPO adopted Regional Trar [LRTP).	sportation Plan
	☐ Rural Area: This pro	ject is consistent with	h the goals outlined in the Statewic	de Transportation Plan
	(SWTP) and/or is in		ransportation Improvement Progra	ım (STIP).
	PAUL	TANNER*/EK	P	9/18/2018
-	State Transportation Planni			Date
	Approval:			
	Concur:	BIHD		12/14/18
	GDOT Direct	or of Engineering	30 30 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8	Date
	Approve:	ant R	2.24.00	12/12/18
	GDOT Chief	Engineer	TOTAL	Date
	*- RECOMMEN	DÂTION ON FI	ILE	

P.I. Number: 0013922

PROJECT LOCATION MAP

CR 472/Elachee Drive over I-985 Bridge Replacement P.I. # 0013922 Hall County





Limited Scope Concept Report – Page 3 County: Hall

PLANNING & BACKGROUND DATA

Project Justification Statement: The bridge on CR 472 (Elachee Drive) over SR 419 (I-985), Structure ID 139-0055-0, was built in 1967. This bridge consists of four (4) spans of continuous steel beams on concrete caps with concrete columns. The bridge was designed using an HS-15 vehicle, which is below current design standards. This bridge has a gutter-to-gutter width of only 23.9 feet. The overall condition of this bridge would be classified as fair. The deck is in satisfactory condition with minor cracking and scaling on the topside. The superstructure is in satisfactory condition with sagging of the steel beams. The substructure is in fair condition with minor to moderate cracking in the concrete caps and columns. Due to the age of the structure, the structural integrity of the bridge pertaining to the design vehicle, and the narrow gutter-to-gutter width, replacement of this 51-year-old bridge is recommended.

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(Prepared by Bridge Office)

Existing conditions: The existing typical section of CR 472/Elachee Drive consists of one 10-foot travel lane in each direction. The rural outside shoulders are 6 feet wide. Additionally, CR 472/Elachee Drive consists of Structure ID 139-0055-0 which is a bridge that has four (4) spans of continuous steel beams on concrete caps with concrete columns. The bridge deck width is 30.4 feet. The total length of the bridge is 300 feet.

Other p	rojects in the a	rea: N/A				
MPO:	Gainesville			TIP #: (GH-116	
Congre	ssional District	(s) : 9				
Federal	Oversight:	□PoDI	⊠Exempt	□State	Funded	□Other
Projected Traffic: AADT 24 HR T: 7.5% Current Year (2018): 225 Open Year (2024): 250 Design Year (2044): 325 Traffic Projections Performed by: Michael Baker International Date approved by the GDOT Office of Planning: 6/13/2018 Functional Classification (Mainline): Urban Local Road						
	Complete Streets - Bicycle, Pedestrian, and/or Transit Standards Warrants: Warrants met: □None ☑Bicycle ☑Pedestrian □Transit Pedestrian Warrant #2, Bicycle Warrant #3					
Initial I	ent Evaluation a Pavement Evaluable Pavement Alt	ation Summary I			⊠No □PCC	□Yes □HMA & PCC

DESIGN AND STRUCTURAL

Description of Proposed Project: This project will replace the existing bridge that was built in 1967 over I-985 in Gainesville. The proposed bridge will be 250 feet long, consisting of two 11-foot lanes, a 4-foot bike lane, a 2-foot gutter, and a 8.5-foot sidewalk on the north side. The south side will be a 6-foot rural shoulder. The total deck width will be 45.33 feet. The roadway approaches will consist of one 11-foot lane in each direction, one 4-foot bike lane with a 14-foot wide urban shoulder which includes 2.5-foot curb and gutter, 2-foot grass strip, and 8-foot sidewalk on the north side. The south side will be a 10-foot rural shoulder of which 6.5' will be paved. The proposed bridge will be constructed in one stage on an offset parallel alignment to the north of the existing bridge and it will accommodate present and future vertical clearance requirements. Mechanically Stabalized Earth (MSE) walls will be constructed parallel with I-985 and will accommodate a future widening and clearzone requirements. The proposed project length is approximately 0.3 miles.

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Major Structures:

Structure ID	Existing	Proposed
139-0055-0	The existing two-lane bridge is 300 feet long with a total bridge deck width of 30.4 feet.	The proposed bridge will be 250 feet long, consisting of two 11-foot lanes, a 4-foot bike lane, a 2-foot gutter, and a 8.5-foot sidewalk on the north side. The south side will be a 6-foot rural shoulder. The total deck width will be 45.33 feet.

Accelerated Bridge Construction (ABC) techniques anticipated:

No

Yes

Accelerated Bridge Construction techniques are not recommended for this project because of the low traffic and the increased construction costs.

Mainline Design Features: CR 472/Elachee Drive

Feature	Existing	Policy	Proposed
Typical Section			
- Number of Lanes	2		2
- Lane Width(s)	10 ft	10-12 ft	11 ft
- Median Width & Type	N/A	N/A	N/A
- Outside Shoulder Width	6 ft	8 ft	10 ft south side
- Border Area Width	N/A	10-16 ft	14ft north side
- Outside Shoulder Slope	6%	2%	2%
- Inside Shoulder Width	N/A	N/A	N/A
- Sidewalks	N/A	5 ft; 5.5 ft on	8 ft; 8.5 ft on
		bridge	bridge on north
			side
- Auxiliary Lanes	N/A		N/A
- Bike Accommodations	N/A	4 ft	4 ft
Posted Speed	25 mph		25 mph
Design Speed	25 mph		25 mph
Minimum Horizontal Curve Radius	400 ft	154 ft	525 ft
Maximum Superelevation Rate	6%	4%	2.8%
Maximum Grade	8%	12%	7.5%
Access Control	By Permit	By Permit	By Permit
Design Vehicle	N/A		SU
Pavement Type	HMA		HMA

^{*}According to current GDOT design policy if applicable

Is the project located on a NH	S roadwa	ay?	⊠ No		□ Yes				
Design Exceptions/Design Var	riances t	o GDO	T and/o	r FHWA	Contro	lling Cri	iteria anti	icipated: N	1/A
Design Variances to GDOT Sta	andard C	riteria	anticipa	ited:N/A					
Lighting required:	⊠ No		□ Yes						
Off-site Detours Anticipated:	I	⊠ No		□ Unde	termine	d	□ Yes		
Transportation Management P	Plan [TMF	P] Requ	iired:	□ No		⊠ Yes			

Limited Scope Concept Report – Page 5 P.I. Number: 0013922 County: Hall If Yes: Project classified as: TMP Components Anticipated: \bowtie TTC INTERCHANGES AND INTERSECTIONS Major Interchanges/Intersections: N/A \bowtie No Intersection Control Evaluation (ICE) Required: ☐ Yes ☐ Yes ☐ Completed – Date: Roundabout Peer Review Required: No UTILITY AND PROPERTY Railroad Involvement: N/A Utility Involvements: Georgia Power Distribution, AT&T, City of Gainesville Water and Sewer SUE Required: \boxtimes No □Yes Public Interest Determination Policy and Procedure recommended? ⊠ No ☐ Yes Right-of-Way: Existing width: 100-170 ft. Proposed width: 100-180 ft. Required Right-of-Way anticipated: □ None Easements anticipated: ☐ None □ Temporary □ Permanent □ Utility □ Other Anticipated total number of impacted parcels: 2 Displacements anticipated: Businesses: 0 Residences: 0 Other: 0 Total Displacements: 0 Impacts to USACE property anticipated? □ Undetermined \boxtimes No ☐ Yes CONTEXT SENSITIVE SOLUTIONS Issues of Concern: Chicopee Woods Area Park Commission requested a 10-11 foot sidewalk for all users on the northside. Context Sensitive Solutions Proposed: The proposed solution separates the bicycles from the pedestrians with a 4-foot bicycle lane. This solution avoids a required barrier obstruction in the roadway and provides an 8'-6" walking width across the bridge. The 8'-6" dimension gives approximately enough room for three (3) people to walk side by side comfortably according to the Pedestrian and Streetscape Guide.

ENVIRONMENTAL AND PERMITS

Anticipated	Environmental	Document:	
NEPA:	□ PCE	⊠ CE	☐ EA-FONSI
GEPA:	☐ Type A	□ Type B	□ None

Lim	nited Scope Concept Report – Page 6		P.I.	Number: 0013922	
Co	ounty: Hall				
Lev	vel of Environmental Analysis:				
	The environmental considerations noted below are environmental analysis and are subject to revision delineation, and agency concurrence.				
	The environmental considerations noted below are identification, delineation, and agency concurrence		n the comple	ion of resource	
	ater Quality Requirements: S4 Compliance – Is the project located in an MS4	area?	□ No	⊠ Yes	
ls I	Non-MS4 water quality mitigation anticipated?	⊠ No		Yes	
En	vironmental Permits, Variances, Commitments, a	and Coo	rdination an	icipated:	
•	A CWA Sec. 404 Permit is not anticipated to be rec	quired.			
•	A buffer variance is not anticipated to be required.				14
•	ESA Sec. 7 informal consultation is anticipated to be habitat; Special Provision 107.23H would be included				pat
•	Supplemental Specification 107.23G would be included a supplemental Specification 107.23G would be included as the supplemental Specification 107.23G would be supplemental Specification				ats and
	migratory birds on bridges.			•	
•	Coordination with GDNR-HPD/GASHPO under Second anticipated to be required.	ction 106	of National F	listoric Preservation	Act is
•	Coordination with FHWA and the Chicopee Woods Section 4(f) of the DOT Act.	Area Pa	ırk Commissi	on is anticipated unde	er

Air Quality:

NEPA/GEPA Comments & Information: Categorical Exclusion

Ecology – The proposed project is located in the Southern Inner Piedmont Level IV Ecoregion of Georgia, within the predicted range of two federally protected mammals (northern long-eared bat and Indiana bat). Due to the presence of potentially suitable summer roosting habitat within the project study area, surveys for these bats are required. Based on a preliminary evaluation, ESA Section 7 consultation with the USFWS will be required.

The USFWS early coordination response letter stated that the range of black-spored quillwort includes Hall County; however, there are no records of granite outcrops in the project vicinity. Field surveys have confirmed that there is no potentially suitable habitat for black-spored quillwort located within the project study area. The letter also stated that the range of Georgia aster includes Hall County; however, there are no known occurrences of this species within the vicinity of the proposed project, and it is very unlikely to occur in the area. Therefore, no surveys for this species are required.

The GDNR-WRD early coordination response letter included records of known occurrences within 3 miles of the project study area for four state-protected plant species: pink ladyslipper, goldenseal, Indian olive, and Ozark bunchflower. Potentially suitable habitat for pink ladyslipper and Indian olive has been identified within the project study area; therefore, species-specific surveys for these two plants are required during the appropriate survey season. The GDNR-WRD response letter also included a known occurrence of one state-protected aquatic species, the Chattahoochee crayfish. Field surveys did not result in the identification of any perennial streams; therefore, there is no potentially suitable habitat for the Chattahoochee crayfish located within the project study area.

Additional correspondence with GDNR-WRD stated that the nearest bald eagle nest to the project study area is located 8 miles west on Lake Lanier. Because the bald eagle is a state-protected species, as well as protected under the federal Migratory Bird Treaty Act (MBTA) and the federal Bald and Golden Eagle

Limited Scope Concept Report – Page 7 County: Hall

Protection Act, the letter requested that the agency be contacted if new nests or eagles are observed within the project study area. The agency also stated that there are no records of golden eagles near the project study area.

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The USFWS and GDNR-WRD recommended that the ecological investigations include inspections of all bridges, culverts, and structures to determine if there is evidence of migratory bird species using the structure for nesting, and to determine if the structure is being utilized as a roost by bats. Therefore, surveys were conducted under the bridges and within large culverts located within the project corridor. Evidence of barn swallow (*Hirundo rustica*) nesting activity was observed underneath the existing Elachee Drive bridges during the field investigation; therefore, Supplemental Specification 107.23G for the protection of bats and migratory birds on bridges would apply to this project. The GDNR-WRD also provided recommendations for best management practices during construction to protect water quality in the vicinity of the bridge crossing.

The field survey resulted in the identification of one jurisdictional wetland, no streams, and no open waters within the project study area. The wetland observed is a palustrine forested wetland located in the southwest quadrant of the Elachee Drive crossing over I-985. Any impacts to this resource would require the preparation and submittal of a Section 404 Permit application to the USACE. Compensatory mitigation in the form of the purchase of compensatory wetland mitigation credits may be required, depending upon the severity of any anticipated impacts to this water of the U.S.

Archaeology – Field survey has been completed, and a Short Form Negative Findings Report has been approved by GDOT.

History – Field survey identified one resource, GDOT Bridge No. 139-0055-0; recommended not eligible for listing on the NRHP.

Air & Noise – A Type III Noise Assessment and an Air Assessment will be performed during Phase II of the project.

Public Involvement – A Public Information Open House is scheduled for May 10, 2019

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Is Federal Aviation Administration (FAA) coordination anticipated?	No	☐ Yes
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Project Meetings: March 13, 2018 – Design team meeting with GDOT PM to discuss preferred concept and alternatives (meeting minutes attached). Concept Team Meeting: July 17, 2018

Other coordination to date:

Project Activity	Party Responsible for Performing Task(s)
Concept Development	Michael Baker International, Holt Consulting
·	Company, LLC
Design	Michael Baker International, Holt Consulting
-	Company, LLC
Right-of-Way Acquisition	GDOT
Utility Coordination (Preconstruction)	GDOT
Utility Relocation (Construction)	Utility
Letting to Contract	GDOT
Construction Supervision	GDOT
Providing Material Pits	Contractor
Providing Detours	Contractor
Environmental Studies, Documents, & Permits	Michael Baker International
Environmental Mitigation	GDOT
Construction Inspection & Materials Testing	GDOT

Project Cost Estimate and Funding Responsibilities:

	PE Activities		o se mana	ed also seems		Structur :
	PE Funding	Section 404 Mitigation	ROW**	Reimbursable Utilities	CST*	Total Cost
Funded By	GDOT	GDOT	GDOT	GDOT	GDOT	(H)
\$ Amount	\$500,000	N/A	TBD	# 70 000	\$5,080,631.46	N= 15 12111
Date of Estimate	12/9/2016	N/A	TBD	10/25/2018	10/25/2018	The field sur-

^{*}CST Cost includes: Construction, Engineering and Inspection, Contingencies and Liquid AC Cost Adjustment.

ALTERNATIVES DISCUSSION

	Preferred Alternative: Construct the proposed bridge in one stage to the north of the existing						
bridge maintaining two lanes of traffic for the duration of the project.							
	Estimated Property Impacts:	2 parcels	Estimated Total Cost:	\$5,580,631.46			
	Estimated ROW Cost:	\$TBD**	Estimated CST Time:	12 months			

Rationale: This Alternative was selected because it has the least amount of construction cost and the bridge can be constructed in one stage reducing the time of construction. The original Preferred Alternative was to stage construct the bridge in two stages while mainataing one lane of traffic utilizing a temporary signal. After feedback from the Concept Team Meeting, the Preferred Alternative was re-evaluated and the one stage construction to the north was chosen. During construction, this Alternative maintains two lanes of traffic and accommodates pedestrians.

^{**}Programmed cost is \$250,000.00 and is not included in the Total Cost in the table. The ROW estimate requested on 3/22/2018. ROW costs will be updated upon receipt of estimate from ROW Office.

No-Build Alternative: Retain the existing bridge					
Estimated Property Impacts: N/A Estimated Total Cost:					
Estimated ROW Cost:	N/A	Estimated CST Time:	N/A		
Rationale: This alternative would not meet the project justification as the structural integrity of the					

^{**}Programmed cost is \$250,000.00 and is not included in the Total Cost in the table. The ROW estimate requested on 3/22/2018. ROW costs will be updated upon receipt of estimate from ROW Office.

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Alternative 1: Stage construct the proposed bridge 22 feet north from the existing to the proposed centerline maintaining one lane of traffic and accommodates pedestrian traffic during construction utilizing a temporary signal.

Estimated Property Impacts:	2 parcels	Estimated Total Cost:	\$5,707,690.51
Estimated ROW Cost:	TBD**	Estimated CST Time:	18 months

Rationale: This Alternative was not selected because of the increased construction costs and time of construction. Furthermore, this Alternative only maintains one lane of traffic while utilizing a temporary signal in stage 2.

Alternative 2: Stage construct the proposed bridge 16 feet north from the existing to the proposed centerline maintaining one lane of traffic utilizing a temporary signal.

Estimated Property Impacts:	2 parcels	Estimated Total Cost:	\$5,774,686.24
Estimated ROW Cost:	TBD**	Estimated CST Time:	18 months

Rationale: This Alternative was not selected because of the increased construction costs and time of construction. Pedestrian traffic is not accommodated during construction. Furthermore, this Alternative only maintains one lane of traffic while utilizing a temporary signal in stage 2.

Alternative 3: Stage construct the proposed bridge 35 feet south from the existing to the proposed centerline maintaining two lanes of traffic and accommodates pedestrian traffic during construction.

Estimated Property Impacts:		Estimated Total Cost:	\$5,811,281.46			
Estimated ROW Cost: TBD** Estimated CST Time: 18 months						
Pationals: This Alternative was not selected because of the increased construction costs and time						

of construction.

Additional Comments/Information:N/A

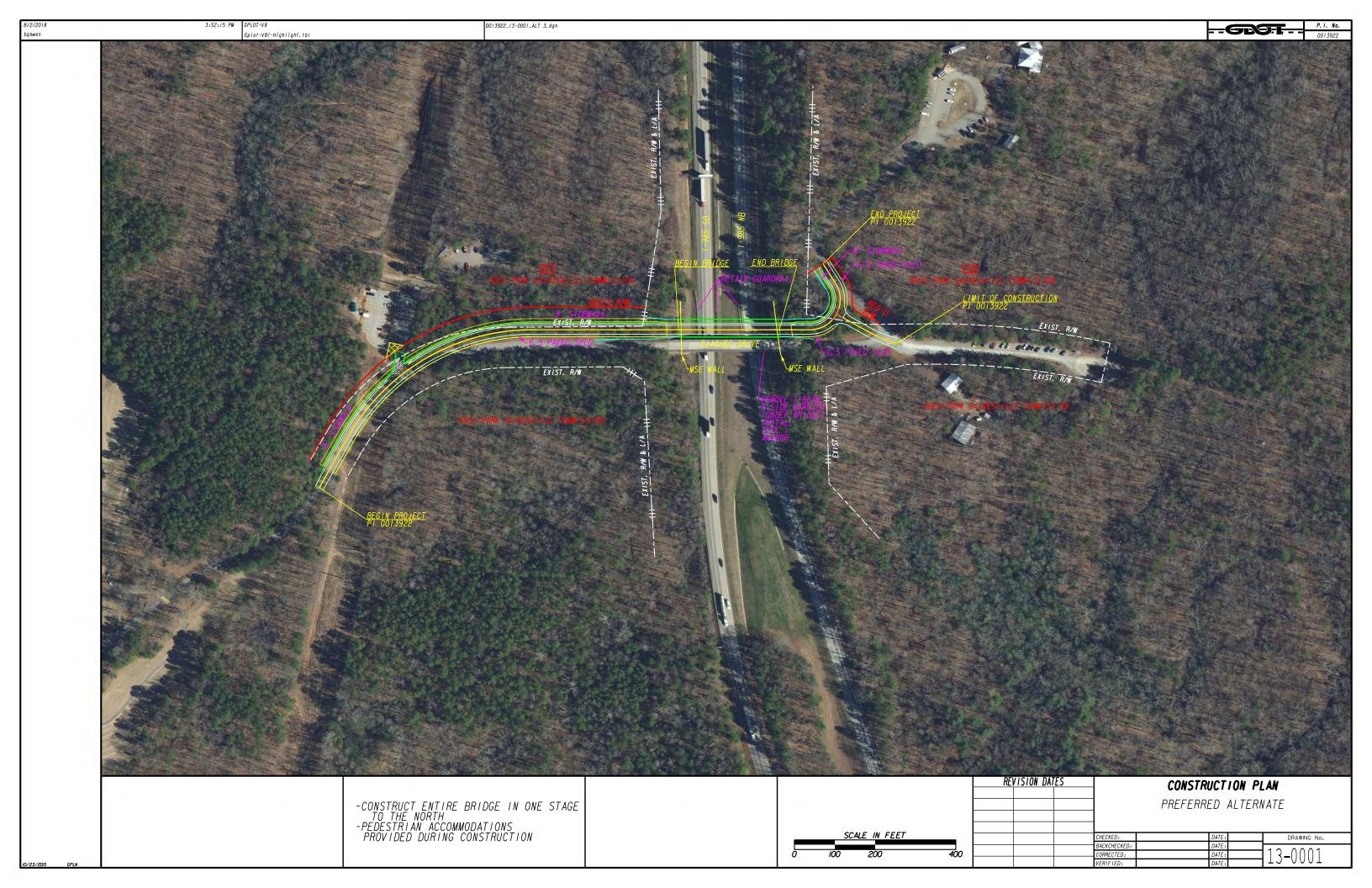
LIST OF ATTACHMENTS/SUPPORTING DATA

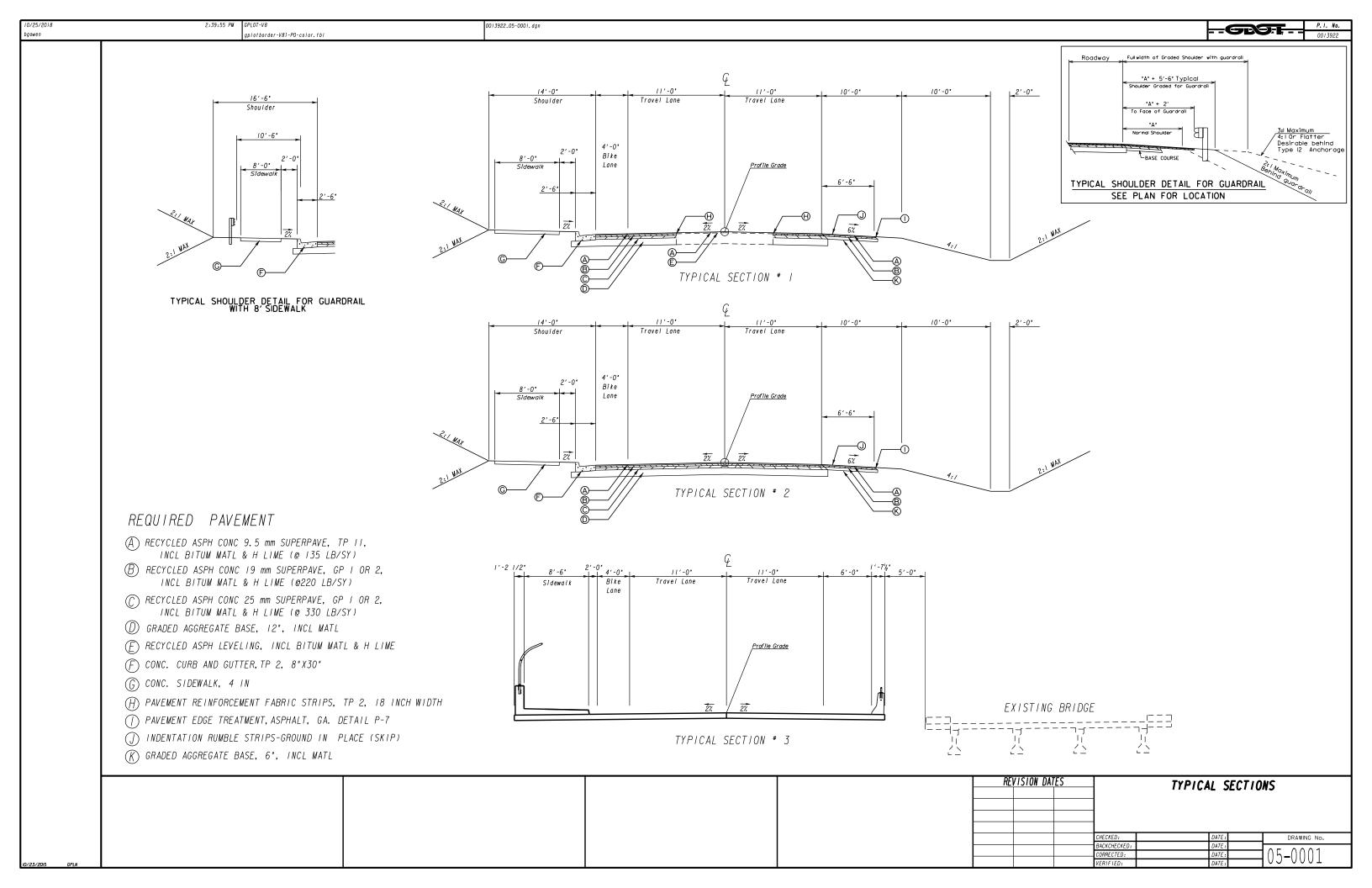
- 1. Concept Layout
- 2. Typical sections
- Cost Estimates
- 4. Traffic assignments
- 5. Project Meeting Minutes
- 6. Concept Team Meeting Minutes
- 7. Letter from Chicopee Woods Area Park Commission
- 8. Bridge Inventory Sheets
- 9. MS4

^{**}Programmed cost is \$250,000.00 and is not included in the Total Cost in the table. The ROW estimate requested on 3/22/2018. ROW costs will be updated upon receipt of estimate from ROW Office.

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Interoffice Memo

FILE	P.I. No.	0013922		OFFICE	Program Delivery
	CT DESCR				
I-985 at	CS 991/Elac	hee Road in Gainesville		DATE	October 25, 2018
From:	Kimberly N	Nesbitt, State Program Delivery Admin	istrator		
To:		e, P.E., State Project Review Engineer Mailbox: CostEstimatesandUpdates@	dot.ga.gov		
Subject	: REVISION	IS TO PROGRAMMED COSTS			
PROIF(TT MANAGI	ER Darrell Richardson	MGMT LET	ΓDATE	March 15, 2021
TROJEC	ZI WANAO	Darren Richardson	MGMT RO	W DATE	March 15, 2020
PROGR	RAMMED C	OSTS (TPro W/OUT INFLATION)		LAST	ESTIMATE UPDATE
CONST	RUCTION	\$ 3,300,000.00		DATE	
RIGHT	OF WAY	\$ 250,000.00		DATE	
UTILITI	IES	\$		DATE	
REVISI	ED COST E	<u>STIMATES</u>			
CONST	RUCTION*	\$ 5,080,631.46			
RIGHT	OF WAY	\$ TBD			
UTILITI	IES	\$ TBD			
*Cost (Contains	15 % Contingency			
REASO	NS FOR CO	OST INCREASE AND CONTINGEN	NCY JUSTIFICA	ATION:	

CONTINGENCY SUMMARY

A. CONSTRUCTION COST ESTIMATE:	\$	4,184,541.99	Base Estimate From CES
B. ENGINEERING AND INSPECTION (E & I):	\$	209,227.10	Base Estimate (A) x 5 %
c. CONTINGENCY:	\$	659,065.36	Base Estimate (A + B) x See % Table in "Risk Based Cost Estimation" Memo 15 %
D. TOTAL LIQUID AC ADJUSTMENT:	\$	27,797.01	Total From Liquid AC Spreadsheet
E. CONSTRUCTION TOTAL:	\$	5,080,631.46	A + B + C + D = E
REI UTILITY OWNER		BURSABLE UTI	LTY COSTS REIMBURSABLE COST
CHEITIOWNER			REIVIDURGABLE COST
TOTAL		\$	-
ATTACHMENTS: (File Copy in the Pro	jec	t Cost Estimate Folder)	
Detailed Cost Estimate Printout Fr Liquid AC Adjustment Spreadshee	om		

Consultant Validation of Final QC/QA for Construction Cost Estimate Used in This Revision To Programmed Costs

COMPANY	NAME:	Micha
COLVER LAINE	I ALBIARRIO	Intitotica

Michael Baker International

VALIDATION OF FINAL QC/QA

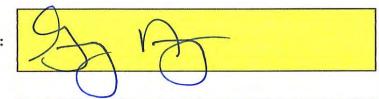
PRINTED NAME:

Greg Mayo, PE

TITLE:

Project Manager

SIGNATURE:



DATE:

5-4-2018

DATE : 10/25/2018

PAGE : 1

JOB ESTIMATE REPORT

JOB NUMBER : 0013922-PREFER SPEC YEAR: 13

DESCRIPTION: ELACHEE DRIVE AT I-985

ITEMS FOR JOB 0013922-PREFER

AMOUNT	PRICE	QUANTITY	DESCRIPTION	UNITS	ALT	ITEM	LINE
196000.00	196000.00	1.000	TRAFFIC CONTROL - 0013922	LS		150-1000	0005
25269.58	8423.19	3.000	TRAF CTRL, PORTABLE IMPACT ATTN	EA		150-5010	0014
86792.11	86792.10	1.000	FIELD ENGINEERS OFFICE TP 3	EA		153-1300	0015
164.35	82.17	2.000	TEMPORARY GRASSING	AC		163-0232	0020
13893.15	257.28	54.000	MULCH	TN		163-0240	0025
6405.98	1601.49	4.000	CONSTRUCTION EXIT	EA		163-0300	0030
11187.33	22.37	500.000	TRAFFIC CONTROL - 0013922 TRAF CTRL,PORTABLE IMPACT ATTN FIELD ENGINEERS OFFICE TP 3 TEMPORARY GRASSING MULCH CONSTRUCTION EXIT CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	LF		163-0520	0040
13637.85	389.65	35.000	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	EA		163-0527	
1580.28	790.14 213.68	2.000	CONSTR & REM ROCK FILTER DAMS	EA		163-0541	0050
1068.42	213.68	5.000	CONS & REM INLET SEDIMENT TRAP	EA		163-0550	0055
1878.93	0.96	1955.000	MAINT OF TEMP SILT FENCE, TP C	LF		165-0030	0065
1146.19	3.27	350.000	MAINT OF CHECK DAMS - ALL TYPES	$_{ m LF}$		165-0041	0070
2538.28	634.56 70.75 343.27	4.000	MAINT OF CONST EXIT	EA		165-0101	0800
353.78	70.75	5.000	MAINT OF INLET SEDIMENT TRAP	EA		165-0105	0085
686.55	343.27	2.000	MAINT OF ROCK FILTER DAM	EA		165-0110	0090
1682.16	420.53	4.000	CONSTR & REM ROCK FILTER DAMS CONS & REM INLET SEDIMENT TRAP MAINT OF TEMP SILT FENCE, TP C MAINT OF CHECK DAMS - ALL TYPES MAINT OF CONST EXIT MAINT OF INLET SEDIMENT TRAP MAINT OF ROCK FILTER DAM WATER QUALITY MONITORING AND SAMPLING	EA		167-1000	0095
13385.75			WATER QUALITY INSPECTIONS ENHANCED DRY SWALE TEMPORARY SILT FENCE, TYPE C GRADING COMPLETE - 0013922 GR AGGR BASE CRS, INCL MATL	MO		167-1500	0100
57375.00	255.00	225.000	ENHANCED DRY SWALE	EA		169-0020	0114
18967.64	4.85	3910.000	TEMPORARY SILT FENCE, TYPE C	LF		171-0030	0115
655000.00	4.85 655000.00	1.000	GRADING COMPLETE - 0013922	LS		210-0100	0120
168850.56	36.54	4620.000	GR AGGR BASE CRS, INCL MATL	TN		310-1101	0125
1948.15		50.000	AGGR SURF CRS	TN		318-3000	0130
4022.44	80.44	50.000	RECYL AC LEVELING, INC BM&HL	TN		402-1812	0134
4022.44	94.14	420.000	AGGR SURF CRS RECYL AC LEVELING, INC BM&HL REC AC 9.5 MM SP, TPII, GP2, INCL BM & H L	TN		402-3103	0135
52180.01	98.45	530.000	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	TN		402-3190	0140
60833.11	96.56	630.000 530.000 240.000 1540.000	RECYL AC 25MM SP,GP1/2,BM&HL	TN		402-3121	0145
1344.23	2.53	530.000	TACK COAT	GL		413-0750	0150
45348.51	188.95	240.000	REINF CONC APPROACH SLAB CONC CURB & GUTTER/ 8X30TP2 CONC SLOPE PAV, 4 IN CONC SIDEWALK, 4 IN PLAIN CONC DITCH PAVING, 4 IN CONC SPILLWAY, TP 1	SY		433-1000	0160
43758.19	28.41	1540.000	CONC CURB & GUTTER/ 8X30TP2	$_{ m LF}$		441-6222	0174
20557.53	62.29	330.000	CONC SLOPE PAV, 4 IN	SY		441-0004	0175
67345.99	62.64	1075.000	CONC SIDEWALK, 4 IN	SY		441-0104	0180
7706.08	48.16	160.000	PLAIN CONC DITCH PAVING, 4 IN	SY		441-0204	0184
4290.10	2145.04	2.000	CONC SPILLWAY, TP 1	EA		441-0301	0185
3545.02	6.95	510.000	CONC SPILLWAY, TP 1 PVMT REF FAB STRIPS, TP2,18 INCH WIDTH	LF		446-1100	0190
	4760.37		INDENT. RUMB. STRIPS - GRND-IN-PL (SKIP)	GLM		456-2015	0194
456300.00	456300.00	1.000	REM OF EX BR, STA NO - 211+00	LS		540-1101	
1598450.00	1598450.00	1.000	CONSTR OF BRIDGE COMPLETE - 0013922	LS		543-9000	0200

DATE : 10/25/2018

PAGE : 2

JOB ESTIMATE REPORT

			JOB ESTIMATE REPORT			
				1 000		
	544-1000	LS	DECK DRAIN SYSTEM, BR NO - 1	1.000	55000.00	55000.00
	550-1180	LF	STM DR PIPE 18,H 1-10	600.000	50.31	30189.64
	550-4218	EA	FLARED END SECT 18 IN, ST DR	2.000	645.48	
	576-1010	LF	SLOPE DRAIN PIPE, IU IN	100.000	29.73	2973.46
	603-2181	SY	STN DUMPED RIP RAP, TP 3, 18	50.000	78.40	3920.09
	603-7000	SY	PLASTIC FILTER FABRIC	50.000	4.84	242.32
	620-0100	LF	TEMP BARRIER, METHOD NO. 1	1000.000	33.57	33570.28
0240	627-1000	SF	DECK DRAIN SYSTEM, BR NO - 1 STM DR PIPE 18,H 1-10 FLARED END SECT 18 IN, ST DR SLOPE DRAIN PIPE, 10 IN STN DUMPED RIP RAP, TP 3, 18 PLASTIC FILTER FABRIC TEMP BARRIER, METHOD NO. 1 MSE WALL FACE, 0 - 10 FT HT, WALL NO - 1	1360.000	39.22	53347.82
0245	627-1000	SF	MSE WALL FACE, 0 - 10 FT HT, WALL NO - 2	1480.000	39.22	58054.98
0250	627-1010	SF	MSE WALL FACE, 10 - 20 FT HT, WALL NO -		42.20	38236.96
0255	627-1010	SF	MSE WALL FACE, 10 - 20 FT HT, WALL NO -	1129.000	42.20	47648.49
0260	627-1020	SF	MSE WALL FACE, 20 - 30 FT HT, WALL NO -	111.000	43.05	4778.91
0265	627-1020	SF	1 MSE WALL FACE, 20 - 30 FT HT, WALL NO -	268.000	43.05	11538.26
			2			
	627-1100	LF	COPING A, WALL NO - 1&2	340.000	92.20	31349.38
	627-1180	CY	ADDITIONAL MSE BACKFILL	420.000	38.36	16111.64
	636-1033	SF	HWY SIGNS, TP1MAT, REFL SH TP 9	50.000	20.04	1002.43
	636-1036	SF	HWY SGN, TP1MAT, REFL SH TP 11	30.000	22.78	683.54
0285	636-2070	$_{ m LF}$	GALV STEEL POSTS, TP 7	135.000	8.45	1141.64
0290	641-1100	LF	GUARDRAIL, TP T	183.000	64.81	11860.30
0295	641-1200	LF	GUARDRAIL, TP W	290.000	22.41	6501.11
0300	641-5001	EA	GUARDRAIL ANCHORAGE, TP 1	3.000	1038.96	3116.89
0305	641-5015	EACH	COPING A, WALL NO - 1&2 ADDITIONAL MSE BACKFILL HWY SIGNS, TP1MAT, REFL SH TP 9 HWY SGN, TP1MAT, REFL SH TP 11 GALV STEEL POSTS, TP 7 GUARDRAIL, TP T GUARDRAIL, TP W GUARDRAIL ANCHORAGE, TP 1 GUARDRI ANCHOR, TP 12A, 31 IN, TANG, E/A	2.000	2979.25	5958.52
0310	653-0110	EA	TUPDM DUMT MARK ADDOM TO 1	3.000	85.96	257.91
	653-0110	EA	THERM DIMT MEC CUM TO A	3.000	90.58	271.74
	653-0320	LF	THERM PUMI MAG, SIM, IP 4	3970.000	0.72	2872.37
			THERMO SOLID TRAF SI 5 IN, WHI	3970.000		
	653-3501	GLF	THERMO SKIP IRAF SI, 5 IN, WHI	155.000	0.53	
	653-1502	LF LF	THERMO SOLID TRAF ST, 5 IN YEL	2815.000	0.67	1895.40
	653-1704		THERM SOLID TRAF SIRIPE, 24, WH	30.000	8.80	264.18
	653-1804	LF	THERM SOLID TRAF STRIPE, 8,WH	185.000	2.44	451.62
	654-1003	EA	RAISED PUMI MARKERS TP 3	85.000	3.88	330.31
	657-1085	LF	PRE PL SD PVT MKG, 8, B/W, TP PB	930.000	7.24	
	657-6085	LF	PRF PL SD PVMT MKG, 8, B/Y, TPPB	620.000	7.33	
	668-1100	EA	CATCH BASIN, GP 1	5.000	2922.37	
	700-6910	AC	PERMANENT GRASSING	3.000	615.92	1847.79
	700-7000	TN	AGRICULTURAL LIME	8.000	13.38	107.09
	700-8000	TN	FERTILIZER MIXED GRADE	2.000	664.55	1329.11
	700-8100	LB	FERTILIZER NITROGEN CONTENT	125.000	4.17	521.96
	716-2000	SY	EROSION CONTROL MATS, SLOPES	2300.000	2.46	5659.70
	711-0100	SY	TURF REINFORCING MATTING, TP 1	900.000	3.95	3557.57
	643-8200	LF	BARRIER FENCE (ORANGE), 4 FT	1000.000	2.19 9656.36	2190.43
0400	632-0003	EA	CHANGEABLE MESS SIGN, PORT, TP 3	2.000	9656.36	19312.73
0410	643-1152	LF	CH LK FEN, ZC COAT, 6', 9 GA	350.000	20.31	7109.79
0415	643-8010	EA	GUARDRL ANCHOR, TP 12A, 31 IN, TANG, E/A THERM PVMT MARK, ARROW, TP 1 THERM PVMT MKG, SYM, TP 4 THERMO SOLID TRAF ST 5 IN, WHI THERMO SOLID TRAF ST, 5 IN, WHI THERMO SOLID TRAF ST, 5 IN YEL THERM SOLID TRAF STRIPE, 24, WH THERM SOLID TRAF STRIPE, 8, WH RAISED PVMT MARKERS TP 3 PRF PL SD PVT MKG, 8, B/W, TP PB PRF PL SD PVMT MKG, 8, B/Y, TPPB CATCH BASIN, GP 1 PERMANENT GRASSING AGRICULTURAL LIME FERTILIZER MIXED GRADE FERTILIZER NITROGEN CONTENT EROSION CONTROL MATS, SLOPES TURF REINFORCING MATTING, TP 1 BARRIER FENCE (ORANGE), 4 FT CHANGEABLE MESS SIGN, PORT, TP 3 CH LK FEN, ZC COAT, 6', 9 GA GATE, CHAIN LINK ZC COAT - 20 FT	2.000	1135.27	2270.54

ITEM TOTAL 4184541.99

STATE HIGHWAY AGENCY

DATE : 10/25/2018

PAGE : 3

JOB ESTIMATE REPORT

CONTINGENCY PERCENT (0.0):

ESTIMATED TOTAL:

0.00
4184541.99

PROJ. NO.

P.I. NO.

DATE

0013922

10/25/2018

CALL NO.

\$

27,041.70

INDEX (TYPE)
REG. UNLEADED

 DATE
 INDEX

 Oct-18
 \$ 2.724

 \$ 3.126

 \$ 553.00

Link to Fuel and AC Index:

http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx

LIQUID AC ADJUSTMENTS

PA=[((APM-APL)/APL)]xTMTxAPL

Asphalt

DIESEL

LIQUID AC

Price Adjustment (PA)			27041.7
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$ 884.80
Monthly Asphalt Cement Price month project let (APL)			\$ 553.00
Total Monthly Tonnage of asphalt cement (TMT)			81.5

ASPHALT	Tons	%AC	AC ton
Leveling	50	5.0%	2.5
12.5 OGFC		5.0%	0
12.5 mm		5.0%	0
9.5 mm SP	420	5.0%	21
25 mm SP	630	5.0%	31.5
19 mm SP	530	5.0%	26.5
	1630		81.5

BITUMINOUS TACK COAT

Price Adjustment (PA)			\$	755.31	\$	755.31
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	884.80		
Monthly Asphalt Cement Price month project let (APL)			\$	553.00		
Total Monthly Tonnage of asphalt cement (TMT)			2.3	276403489		

Bitum Tack

Gals	gals/ton	tons
530	232.8234	2.27640349

PROJ. NO.						CALL NO.	
P.I. NO.	0013922						
DATE	10/25/2018	3					
	-						
BITUMINOUS TACK CO	OAT (surface t	reatment)					
Price Adjustment (PA)						0	\$ -
Monthly Asphalt Cement Price month placed (APM)			Max. Cap	60%	\$ 884.80		
Monthly Asphalt Ceme	ent Price mon	th project let (AF	PL)			\$ 553.00	
Total Monthly Tonnage	e of asphalt co	ement (TMT)				0	
Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons		
Single Surf. Trmt.		0.20	0	232.8234	0		
Double Surf.Trmt.		0.44	0	232.8234	0		
Triple Surf. Trmt		0.71	0	232.8234	0		
	•	<u> </u>			0		

\$

27,797.01

TOTAL LIQUID AC ADJUSTMENT



Interoffice Memo

FILE

Project No:

n/a

Office: GAINESVILLE

County

Hall

Date:

October 26, 2018

P.I.#

0013922

Description:

I-985 at CS 991/Elachee Rd in Gainesville

Robby Oliver, District Utilities Manager

TO

FROM

Darrell Richardson, Project Manager

SUBJECT

PRELIMINARY UTILITY COST ESTIMATE

A review of utilities located on the above referenced project has been conducted with Concept Layout plans. Listed below is a breakdown of the anticipated reimbursable and non-reimbursable cost.

<u>Utility Owner</u>		Reimbursable	<u>Non-</u> <u>Reimbursable</u>	Estimate Based on
Georgia Power Co - Distribution		\$70,000.00	\$0.00	Site Visit / Available Drawings
Bellsouth (AT&T) - Local		\$0.00	\$21,600.00	Site Visit / Available Drawings
Gainesville DWR - Water	**	\$0.00	\$27,000.00	Site Visit / Available Drawings
<u>.</u>				
			_	
Total	100.00%	\$70,000.00	\$48,600.00	_
Department Responsibility	100.00%	\$70,000.00		
Local Sponsor Responsibility	0.00%	\$0.00		PFA Dated N/A with N/A

^{**} Indicates Potential Utility Aid Request from Local Gov't

Estimate is based on the best available information at the current stage, unforeseen prior rights information may be provided by the Utility Company at a later date that could cause some nonreimbursable costs to shift to the reimbursable cost column.

If additional information is needed, please contact Robby Oliver at 770-533-8320.

cc: Patrick Allen, State Utilities Administrator Yulonda Pride-Foster, State Utilities Preconstruction Manager Brandon Kirby, District Preconstruction Engineer Scott Frederick, Area Manager

File

Original Version: May 24, 2013 Revision: Feb. April 5, 2018

Concept Utility Report

Project Number: Click here to enter text.	District: Hall
County: Hall	Prepared by: Doris Abernathy
P.I. # 0013922	Date: October 22, 2018
Project Description: Bridge Replacement at I-985	and Elachee Rd in Gainesville
The information provided herein has been gathered from Georgic in this report is to be used as a substitute for 1^{st} Submission or SU	a811and/or field visits and serves as an estimate. Nothing contained JE.
Are SUE services recommended? No	
Level: □A □B □C □D	
Public Interest Determination (PID):	
☐ Automatic ☐ Mandatory ☐ Consideration ☐	⊠No Use □Exempt
Is a separate utility funding phase recommended? No	
Potential Project (Schedule/Budget) Impacts: N/A	
Capital Improvement Projects (Utilities) Anticipated in the	e Area: None anticipated
Project Specific Recommendations for Avoidance/Mitigat	tion: N/A
Right of Way Coordination: If permanent easements are r	negotiated include Utility Clause.
Environmental Coordination: N/A	
	e Natural Preserve, wants to be kept in the loop. No wells are inch water pipes to the facilities. No gas or sewer facilities in

the area. Village and park have septic tanks. ATT is under 985 near the bridge and Georgia Power supplies electricity. Lee wants to be involved in future meetings. Gainesville does not believe to be in conflict with project but will be

sending formal request to attach to bridge - current situation doesn't allow for fire hydrants to the park.

Original Version: May 24, 2013 Revision: Feb. March 8, 2018

Utilities have facilities within the project limits.

Utilities have been identified using Georgia811 and/or field visits.

Facility Owner	Facility Owner Contact Email Address	Existing Facilities/ Appurtenances	General Description of Location	Facilities to Avoid approx. limits	Facilities Retention Recommended approx. limits	Comments
ATT-	Clay Johnson	Telecom	N/A	N/A	N/A	Click here to
Bellsouth	Cj3079@att.com					enter text.
Georgia	Galen Davis	Electricity	N/A	N/A	N/A	Click here to
Power Dist.	GDavis@Southernco.com					enter text.
City of	Jason Perry jperry	Water	N/A	N/A	N/A	Click here to
Gainesville	@gainesville.org					enter text.

Note: To add additional rows, click the bottom right corner of the box above, then click the blue + that will appear. Please add additional rows prior to entering text.

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE Hall County OFFICE Planning

P.I. # 0013922 **DATE** June 13, 2018

FROM Cynthia L. VanDyke, State Transportation Planning Administrator

TO Kimberly Nesbitt, State Program Delivery Engineer

Attention: Darrell Richardson

SUBJECT Reviewed Design Traffic Data Report for Elachee Drive bridge replacement

over I-985

We have reviewed the Design Traffic for the above project. The Design Traffic is approved. The approved Design Traffic is furnished in the attached

document: 2018.06.12_PI 0013922_Traffic Forecasting Memo.pdf.

If you have any questions concerning this information, please contact Andre Washington at 404-631-1925.

Keith McCage HNTB Design Traffic Consultant to GDOT 404-946-5731

CLV/KAM



420 Technology Parkway Norcross, GA 30092

MEMORANDUM TO: Darrell Richardson

Georgia Department of Transportation, Office of Planning

FROM: William Ruhsam

Michael Baker International

DATE: May 23, 2018

SUBJECT: Traffic Assignments for PI# 0013922

Hall County, GA

Elachee Drive Bridge Replacement over I-985

Michael Baker is furnishing Traffic Assignments for the above project as follows:

BRIDGE- ID 139-0055-0

No Build = Build	2018 (Existing Year)	2024 (Base Year)	2026 (Base Year +2)	2044 (Design Year)	2046 (Design Year +2)				
AADT	225	250	250	325	350				
DHV (AM/PM)	40 / 60	45 / 70	45 / 70	55 / 90	60 / 95				
K% (AM/PM)	17.0% / 27.0%								
D% (AM/PM)	57.0% / 51.0%								
24 HR. T% - S.U.	7.5%								
24 HR. T% - COMB.	0.0%		Sama aa Ey	iotina Voor					
24 HR. T% - TOTAL	7.5%		Same as Ex	isting real					
T% - S.U. (AM/PM)	6.0% / 10.0%								
T% - COMB. (AM/PM)	0.0% / 0.0%								
T% - TOTAL (AM/PM)	6.0% / 10.0%								

If you have any questions concerning this information, please contact William Ruhsam at 678-966-6612



I-985 at Elachee Road (PI #0013922)

March 14, 2018

MEETING NOTES

Location

Michael Baker International 420 Technology Parkway Suite 150 Norcross, GA 30092

Attendees

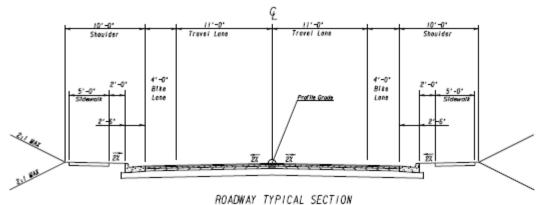
Darrell Richardson	GDOT (PM)	drichardson@dot.ga.gov
Al Bowman	MBI	abowman@mbakerintl.com
Chad Havens	MBI	chad.havens@mbakerintl.com
George Manning	MBI	george.manning@mbakerintl.com
Mary Best	MBI	mdbest@mbakerintl.com

Brad Gowen Holt Consulting bgowen@holtconsultingco.com

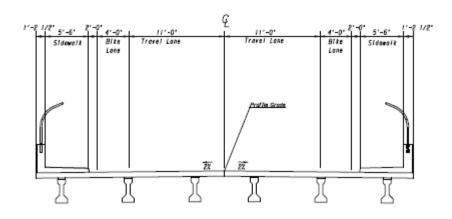
The purpose of the meeting was to discuss the different concept alternatives for the bridge replacement project below:

I-985 at Elachee Road

- The Preferred Alternative is the one-lane configuration with a temporary signal and pedestrian access during construction.
- Alternative 1 is the one-lane configuration with a temporary signal and no pedestrian access during construction.
- Alternative 2 is the two-lane configuration with pedestrian access during construction.
- Use an 8-foot minimum between structures for staging purposes.
- The agreed to final typical section is as shown below:



nonemin in role decirion



BRIDGE TYPICAL SECTION

Action Items

- 1. GDOT PM to schedule Concept Team Meeting for the middle to end of May 2018
- 2. The ROW Estimate checklist needs to accompany the ROW layouts
- 3. Request Utility Estimates

Prepared by: Chad Havens

Michael Baker International

March 16, 2018



July 17, 2018 Concept Team Meeting Minutes

PI No. 0013922

TO: All attendees FROM: Brad Gowen

Meeting Date: July 17, 2018

RE: PI 0013922 CR 472/Elachee Drive over I-985 Bridge Replacement in Gainesville

Location: GDOT District 1 – 1475 Jesse Jewell Parkway, Conference Room 114, Gainesville, GA

Purpose: Concept Team Meeting

I. WELCOME

II. INTRODUCTIONS – ATTENDEES INCLUDE:

Darrell Richardson, GDOT (AECOM)

Shane Giles, District 1 Traffic Operations

Judy Prince, GDOT Preconstruction

Doris Abernathy, District 1 Utilities

Brandon Kirby, GDOT District 1 Harold Mull, District 1 Construction

Jason Perry, Gainesville Water

Galen Davis, GPC

RK Whitehead, Chicopee Woods

Andrea Timpone, Nature Science Center

Lee Irminger, Nature Science Center

Brad Gowen, Holt Consulting Company

Chad Havens, Michael Baker International

George Manning, Michael Baker International

Mary Best, Michael Baker International

drichardson@dot.ga.gov

shgiles@dot.ga.gov

jprince@dot.ga.gov

dabernathy@dot.ga.gov

bkirby@dot.ga.gov

hmull@dot.ga.gov

jperry@gainesville.org

hdavis@southernco.com

rkwhitehead@wdcdiecast.com

andrea@elachee.org

lee@elachee.org

bgowen@holtconsultingco.com

chad.havens@mbakerintl.com

george.manning@mbakerintl.com

mdbest@mbakerintl.com

- Brad Gowen described the need and purpose of the project as being a bridge replacement project due to the weight restrictions and the structural integrity of the existing bridge. He proceeded to go through the different aspects of the Concept Report.
- Traffic has been approved as of 6/13/2018.
- Darrell Richardson stated to remove the sentence in the Project Justification Statement that mentions the ADT as it is out of date.
- R.K. Whitehead asked how long the temporary signals would be in place during the construction staging of the project. Darrell Richardson stated the signal would be utilized for stage 1 and 2. (approximately 6 months)
- Andrea Timpone stated that the temporary signals should not cause a problem for the Nature Science Center. Andrea stated that their peak season is about all year long. The Nature Science Center also supports a small school of about 30 students which are dropped off by parents (no school bus).
- Andrea stated that there is only a 2" waterline that currently serves the Nature Center. At a minimum, the City of Gainesville would like an 8" waterline across the bridge and stubbed out on each end so in the future they could tie to it.
- Darrell asked any need for sewer? City of Gainesville stated it would be too complicated and would require a lift station.
- Power and AT&T south of the existing bridge under I-985.
- Ga Power recommended a SUE survey. Darrell stated to the District to let him know if SUE needs to be included on the project.
- Mary Best gave an overview of the Environmental Section in the Concept Report. Archaeology and history is currently under review. Assessment of Effects hopefully no adverse effects. Based on a preliminary evaluation, ESA Section 7 consultation with the USFWS will be required due to the presence of potentially suitable summer roosting habitat within the project study area. Section 4f will be coordinated due to the Elachee Nature Center is located (and leased from) the 1400-acre Chicopee Woods Nature Preserve, which is protected by a conservation easement. Air and noise screening will be required. If the wetland is impacted in the SW quadrant a 404 permit would be needed. No buffer variance would be required.
- Brandon Kirby stated to verify that the project is or is not in a non-attainment area.
- Brandon Kirby and Darrell Richardson stated to provide enough room for two additional lanes in the NB and SB directions along I-985 plus clear zone and vertical clearance to accommodate the future typical section. A center bent column will be in the median and MSE walls at the end bents.
- Darrell stated to widen to the inside assuming a median barrier.
- Brad described the alternates as presented in the Concept Report.
- Darrell stated to use \$140/SF for the bridge cost.
- Harold Mull stated to investigate an alternate to the north or south that allows the bridge to be completed in one stage. He estimated it could save \$200,000 for the bridge construction if the bridge was constructed entirely in the first stage. The construction contract time would be 12 months with the actual bridge construction of 6 months.
- R.K. Whitehead asked if the typical section could be modified to include a wider sidewalk on the northside and remove the sidewalk on the southside?

- Brandon Kirby stated yes this could be implemented. Brandon requested that the Nature Center write a letter stating exactly what typical section they would prefer.
- Nature Center asked if plantings could be included on the bridge. GDOT stated that this is not
 possible. Nature Center asked about a wildlife corridor and decorative fencing on the bridge.
 GDOT stated anything extra would need to be funded by the Nature Center.
- City of Gainesville maintains Elachee Drive.
- Nature Center did not think that Alternate 1, which is stage construction to the north with no
 pedestrian access across the bridge during construction, was viable due to the amount of
 pedestrian traffic.
- Chicopee Woods Park Commission and the Nature Science Center is very supportive of the project.

Action Items:

- 1. Holt Consulting to include an Alternate that builds the entire bridge in the first stage.
- 2. Chicopee Woods Park Commission and the Nature Science Center to write a letter to GDOT stating the typical section that they prefer.



August 20, 2018

Mr. Darrell Richardson Bridge Program Management Team AECOM Development Planning & Engineering 678-730-1448

Via E-Mail: DRichardson@dot.ga.gov

RE: Elachee Road Bridge replacement over I-985

Dear Mr. Richardson:

Thank you for including us in the July 17th concept team meeting for the above project.

As discussed, the Chicopee Woods Area Park Commission is in favor and fully supportive of this project. Based on the initial preliminary designs and alternates, we do have some comments and requests as the project moves forward.

All the current designs presented (primary and alternates) call for a sidewalk to be constructed on both sides of the car travel lanes for both the road approaches on each end as well as the bridge itself. However, with our experience of the functional use of the bridge by current users, we would ask if possible that as an alternative, the design incorporate a single sidewalk, 10 to 11 feet in width on the North side of the travel lanes and bridge. Because of the location of the Bike Trail parking lot, and the Elachee Nature Center, we would expect limited (if any) utilization of a sidewalk on the Southern side of the road. However, a wide sidewalk on the Northern side would be well used with striping down the center to visually separate any pedestrian or bicycle traffic. This design would also be in keeping with other "trail" layouts being incorporated throughout the County, similar to the current Highlands to Islands trail system.

In addition, we would appreciate that any type of visual and safety enhancements that need to be incorporated in the design be as congruent as possible with the spirit of the Chicopee Woods Conservation Area.

We feel this is a wonderful opportunity for a partnership between Chicopee Woods, Elachee Nature Science Center, and the Georgia Department of Transportation to develop a bridge replacement design that is both unique and functional, while remaining under the current budgeted amount for this project.

We look forward to further opportunity to review and discuss the designs as they progress thru the process.

Thank you again for allowing Chicopee Woods to offer our perspective for this project.

Yours truly,

RK Whitehead

RK. Whiteheal

Chairman

Chicopee Woods Area Park Commission

CC: Elachee Nature Science Center

Bridge Inventory Data Listing Georgia Department of Transportation

Processed Date:2/1/2018

* Location ID No:

139-00472X-000.68N

Parameters: Bridge Serial Number

Bridge Serial Number: 139-0055-0		County: Hall		SUFF. RATING: 46.4		
Location & Geography		218 Datum:	0- Not Applicable	Signs & Attachments		
Structure ID:	139-0055-0	*19 Bypass Length:	99	225 Expansion Joint Type:	06- Strip seal type I. (Onflex)	
200 Bridge Information:	06	*20 Toll:	3- On a Free Road or Non-Highway	242 Deck Drains:	0- None.	
*6 Feature Intersected:	SR 419 (I-985 US 23)	*21 Maintenance Responsibility:	01-State Highway Agency.	243A Parapet Location:	0- None present.	
*7A Route Number Carried:	CR00472	*22 Owner:	01-State Highway Agency.	243B Parapet Height:	0.00	
*7B Facility Carried:	ELACHEE ROAD	*31 Design Load:	3- HS 15	243C Parapet Width:	0.00	
9 Location:	IN OAKWOOD	37 Historical Significance:	5- Not eligible for the National Register of Historic Places	238A Curb Height:	0.9	
2 GDOT District:	4841100000 - D1 DISTRICT ONE GAINESVILLE	205 Congressional District:	009	238B Curb Material:	1- Concrete.	
*91 Inspection Frequency:	24 Date: 05/25/2017	27 Year Constructed:	1967	239A Handrail Left:	7- Aluminum.	
92A Fracture Critical Insp. Freq:	0 Date: 02/01/1901	106 Year Reconsttucted:	0	239B Handrail Right:	7- Aluminum.	
92B Underwater Insp Freq:	0 Date: 02/01/1901	33 Bridge Median:	0-None	*240 Median Barrier Rail:	0- None.	
92C Other Spc. Insp Freq:	0 Date: 02/01/1901	34 Skew:	0	241A Bridge Median Height:	0	
* 4 Place Code:	57260	35 Structure Flared:	No	241B Bridge Median Width:	0	
*5A Inventory Route(O/U):	1	38 Navigation Control:	N- Bridge is not over water	*230A Guardrail Location Direction Rear:	3- Both sides.	
5B Route Type:	4 - County	213 Special Steel Design:	0- Not applicable or other	*230B Guardrail Location Direction Fwrd:	3- Both sides.	
5C Service Designation:	7- Service or Unclassified	267A Type Paint Super Structure:	5- Waterborne System (Type VI or VII) Year : 1995	*230C Guardrail Location Opposing Rear:	0- None.	
5D Route Number:	00472	267B Type Paint Sub Structure:	0- Not Applicable Year : 0000	*230D Guardrail Location Opposing Fwrd:	0- None.	
5E Directional Suffix:	0. Not applicable	*42A Type of Service On:	1-Highway	244 Approach Slab:	3- Forward and Rear.	
*16 Latitude:	34 - 14.7756	*42B Type of Service Under:	1-Highway (with or without pedestrians)	224 Retaining Wall:	0- None.	
*17 Longtitude:	83 - 50.1030	214A Movable Bridge:	0	233 Posted Speed Limit:	25	
98A Border Bridge:	0 98B: GA% 00	214B Operator on Duty:	0	236 Warning Sign:	No	
99 ID Number:	00000000000000	203 Type Bridge:	Z - Unknown. O. Concrete M. Steel O. Concrete	234 Delineator:	No	
*100 STRAHNET:	1- The Feature is on an Interstate STRAHNET route.	259 Pile Encasement:	3	235 Hazard Boards:	No	
12 Base Highway Network:	Yes	*43A Structure Type Main material:	4-Steel (Continuous)	237A Gas:	00- Not Applicable	
13A LRS Inventory Route:	1398249500	*43B Structure Type Main Type:	2-Stringer/Multi-Beam or Girder	237B Water:	00- Not Applicable	
13B Sub Inventory Route:	0	45 Number of Main Spans:	4	237C Electric:	00- Not Applicable	
101 Parallel Structure:	N. No parallel structure exists	44 Structure Type Approach:	A:0- Other B: 0- Other	237D Telephone:	00- Not Applicable	
*102 Direction of Traffic:	2- Two Way	46 Number of Approach Spans:	0	237E Sewer:	00- Not Applicable	
*264 Road Inventory Mile Post:	0.00	226 Bridge Curve:	A: Vertical: YesB: Horizontal: No	247A Lighting: Street:	No	
*208 Inspection Area:	Area 01	111 Pier Protection:	N - Navigation Control item coded 0, or Feature not a waterway	247B Navigation:	No	
*104 Highway System:	1-Inventory Route is on the NHS	107 Deck Structure Type:	1 - C-I-P Portland Cement Concrete - Epoxy Coated Rebars	247C Aerial:	No	
*26 Functional Classification:	19- Urban - Local	108A Wearing Surface Type:	1. Concrete	*248 County Continuity No.:	00	
*204A Federal Route Type:	0 - Not located on a Federal Aid Route	108B Membrane Type:	0. None	36A Bridge Railings:	2- Inspected feature meets acceptable	
					construction date standards.	
*204B Federal Route Number:	00000	108C Deck Protection:	8. Unknown	36B Transition:	2- Inspected feature meets acceptable	
					construction date standards.	
105 Federal Lands Highway:	Not applicable	265 Underwater Inspection Area:	0	36C Approach Guardrail:	1- Meets current standards	
*110 Truck Route:	0- The Feature is not part of the National Network for			36D Approach Guardrail Ends:	1- Meets current standards	
	Trucks					
217 Benchmark Elevation:	0000.00					

Bridge Inventory Data Listing Georgia Department of Transportation

Processed Date:2/1/2018

Bridge Serial Number: 139-0055-0		County: Hall		SUFF. RATING: 46.4		
Programming Data		Measurements:		Ratings and Posting		
201 Project Number:	F-013-1 (17)	*29 AADT:	1570	65 Inventory Rating Method:	1-Load Factor (LF)	
202 Plans Available:	1- Plans at General Office.	*30 AADT Year:	2012	63 Operating Rating Method:	1-Load Factor (LF)	
249 Proposed Project Number:	000000000000000000000000000000000000000	109 % Truck Traffic:	1	66A Inventory Type:	2 - HS loading.	
250A Reconstruction Approval Status:	No	* 28A Lanes On:	2	66B Inventory Rating:	22	
250B Route Approval Status:	No	*28B Lanes Under:	4	64A Operating Type:	2 - HS loading.	
250C Approval Status Definition:	0	210A Tracks On:	00	64B Operating Rating:	36	
250D Approval Status Federal:	0	210B Tracks Under:	0	231Calculated Loads	Posting Required	
251Project Identification Number:	0013922	* 48 Maximum Span Length:	86	231A H-Modified:	21 No	
252 Contract Date:	02/01/1901	* 49 Structure Length:	300	231B Type3/Tandem:	24 No	
260 Seismic Number:	00000	51 Bridge Roadway Width:	23.900000000000002'	231C Timber:	28 No	
75A Type Work Proposed:	0- Not Applicable	52 Deck Width:	30.400000000000002'	231D HS-Modified:	26 No	
75B Work Done by:	0- Initial Inventory	* 47 Total Horizontal Clearance:	23.900000000000002'	231E Type 3S2:	29 No	
94 Bridge Improvement Cost:(X\$1,000)	\$1,172	50A Curb / Sidewalk Width Left:	2.0	231F Piggyback:	00 No	
95 Roadway Improvement Cost: (X\$1,000)	\$117	50B Curb / Sidewalk Width Right:	2.0	261 H Inventory Rating:	18	
96 Total Improvement Cost: (X\$1,000)	\$1758	32 Approach Rdwy. Width:	21.0'	262 H Operating Rating:	31	
76 Improvement Length:	0.0'	*229 Approach Roadway		67 Structural Evaluation:	5	
97 Year Improvement Cost Based On:	2013	Rear Shoulder Left: Width: 5	Right Width: 2.0 Type: 8 - Grass (Dirt).	58 Deck Condition:	6 - Satisfactory Condition	
114 Future AADT:	2355	Fwd Shoulder: Left Width: 3.4	Right Width:3.6 Type: 8 - Grass (Dirt).	59 Superstructure Condition:	6 - Satisfactory Condition	
115 Future AADT Year:	2032	Rear Pavement: Width: 21.0	Type:2- Asphalt.	* 227 Collision Damage:		
		Forward Pavement: Width: 21.3	Type:2- Asphalt.	60A Substructure Condition:	6 - Satisfactory Condition	
		Intersection Rear: 0	Forward:0	60B Scour Condition:	N - Not Applicable	
Hydraulic Data		53 Minimum Vertical Clearance Over Rd:	99' 99"	60C Underwater Condition:	N - Not Applicable	
113 Scour Critical:	N. Bridge not over waterway.	54A Under Reference Feature:	H- Highway beneath structure.	71 Waterway Adequacy:	Not Applicable.	
216A Water Depth:		54B Minimum Clearance Under:	17' 2"	61 Channel Protection Cond.:	Not Applicable.	
216B Bridge Height:		*228 Minimum Vertical Clearance		68 Deck Geometry:	4	
222 Slope Protection:		228A Actual Odometer Direction:	99'99"	69 UnderClr. Horz/Vert:	9	
221A Spur Dike Rear:		228B Actual Opposing Direction:	99'99"	72 Approach Alignment:	 No reduction of vehicle operating speed required. 	
221B Spur Dike Fwd:		228C Posted Odometer Direction:	00'00"	62 Culvert:	N - Not Applicable	
219 Fender System:	0- None.	228D Posted Opposing Direction:	00'00"	70 Bridge Posting Required:	5. Equal to or above legal loads	
220 Dolphin:		55A Lateral Underclearance Reference:	H- Highway beneath structure.	41 Struct Open, Posted, CL:	A. Open, no restriction	
223A Culvert Cover:	000	55B Lateral Underclearance on Right:	13.8	* 103 Temporary Structure:	No	
223B Culvert Type:	0- Not Applicable	56 Lateral Underclearance on Left:	39.4	232 Posted Loads		
223C Number of Barrels:	0	10A Direction of Travel for Max Min:	0	232A H-Modified:	00	
223D Barrel Width:	0.0	10B Max Min Vertical Clearance:	99'99"	232B Type3/Tandem:	00	
223E Barrel Height:	0.0	245A Deck Thickness Main:	8.0	232C Timber:	00	
223F Culvert Length:	0.0	245B Deck Thickness Approach:	0.0	232D HS-Modified:	00	
223G Culvert Apron:		246 Overlay Thickness:	0	232E Type 3s2:	00	
39 Navigation Vertical Clearance:	0'			232F Piggyback:	00	
40 Navigation Horizontal Clearance:	0			253 Notification Date:	02/01/1901	
116 Navigation Vertical Clear Closed:	0			258 Federal Notify Date:	02/01/1901	

MS4 Concept Report Summary

Attach the following checklist information to the Concept Report Template:

ere a Project Level Exclusion that applies to this project: yes, please indicate which of the following exclusions ap	⊠ No ply:	□ Yes				
Roadways that are not owned or operated (maintained) Coordinate with the appropriate local government or en requirements.	•		MPs.			
The project location is not within a designated MS4 are	a.					
☐ Maintenance and safety improvement projects whereby the sites are not connected and disturbs less that one acre at each individual site. This includes projects such as repaving, shoulder building, fiber optic line installation, sign addition, and sound barrier installation.						
Projects that have their environmental documents appropriate or before June 30th, 2012.	oved or riç	ght-of-way plans submitted for approve	al on			
Road projects that disturb less than 1 acre or for site de impervious area.	evelopmer	nt projects that add less than 5,000 ft ²	of			

If the project has a Project Level Exclusion nothing further is needed.

If the project does not have a Project Level Exclusion use the MS4 Concept Level Design Spreadsheet to estimate the treatment volumes and flow rates, size the BMP's, complete the tables below, and include as an attachment to the Concept Report. Add additional rows, if necessary. It is understood that this information will be approximate based on available information at the time of the concept.

In MS4 designated areas, water quantity requirements may be waived for drainage areas that flow directly into surface waters that have a drainage area greater than 5 square miles.

Drainage Area Summary										
							Water	Channel	Required	
							Quality	Protection	Detention	
		Pre-Develop	pment	Post-Development			Volume	Volume	Volume	
Outfall		Weighted	Area		Weighted	Area	(Cubic	(Cubic	(Cubic	
Area	Tc	CN	(Acres)	Tc	CN	(Acres)	Feet)	Feet)	Feet)	
1	30	55	1.65	30	56	1.70	196	N/A	N/A	
2	36	57	0.70	36	75	1.22	2039	N/A	N/A	
3	19	98	0.14	19	98	0.26	470	N/A	N/A	
4	5	98	0.11	5	98	0.18	274	N/A	N/A	
5	5	98	0.15	5	98	0.16	39	N/A	N/A	

BMP Selection and Feasibility Summary										
	Outfa	all Level Exclusion?		Is the BMP Feasible?						
			BMP		Infeasibility Criteria	¹ Feasibility of an				
	Y/N	Exclusion No.	Selected	Y/N	No.	Infiltration BMP				
Outfall Area										
1	N	N/A	E. Swale	Υ	N/A	Potentially suitable				
2	Ν	N/A	E. Swale	Υ	N/A	Potentially suitable				
3	Ν	N/A	E. Swale	Υ	N/A	Potentially suitable				
4	N	N/A	E. Swale	Υ	N/A	Potentially suitable				
5	Υ	4	N/A							

